



# **6J5, 6J5-GT** **MEDIUM-MU TRIODE**

**6J5**  
**6J5-GT**

## **GENERAL DATA**

### **Electrical:**

Heater, for Unipotential Cathode:

Voltage. . . . . 6.3 . . . . . ac or dc volts  
Current. . . . . 0.3 . . . . . amp

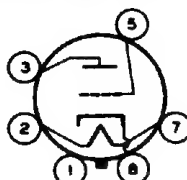
|                                       | 6J5 | 6J5-GT |                  |
|---------------------------------------|-----|--------|------------------|
| Direct Interelectrode Cap. (Approx.): | -   | ▲▲     |                  |
| Grid to Plate. . . . .                | 3.4 | 3.8    | $\mu\mu\text{f}$ |
| Grid to Cathode. . . . .              | 3.4 | 4.2    | $\mu\mu\text{f}$ |
| Plate to Cathode. . . . .             | 3.6 | 5.0    | $\mu\mu\text{f}$ |

▲▲ With No. 308 shield connected to cathode.

### **Mechanical:**

|                                    |                              |                                    |
|------------------------------------|------------------------------|------------------------------------|
| Mounting Position. . . . .         | Any                          | Any                                |
| Maximum Overall Length. . . . .    | 2-5/8"                       | 3-5/16"                            |
| Maximum Seated Height. . . . .     | 2-1/16"                      | 2-3/4"                             |
| Maximum Diameter. . . . .          | 1-5/16"                      | 1-5/16"                            |
| Bulb. . . . .                      | Metal Shell, MT8G            | T-9                                |
| Base. . . . .                      | { Small-Wafer<br>Octal 6-Pin | { Sm.-Wafer Octal<br>6-Pin, Sleeve |
| Basing Designation for BOTTOM VIEW | 6Q                           | GT-6Q                              |

Pin 1 { 6J5, Shell  
6J5-GT, Base  
Sleeve  
Pin 2-Heater



Pin 3-Plate  
Pin 5-Grid  
Pin 7-Heater  
Pin 8-Cathode

## **AMPLIFIER- Class A<sub>1</sub>**

### **Maximum Ratings, Design-Center Values:**

|  |          |       |
|--|----------|-------|
| PLATE VOLTAGE. . . . .                   | 300 max. | volts |
| GRID VOLTAGE. . . . .                    | 0 max.   | volts |
| CATHODE CURRENT. . . . .                 | 20 max.  | ma    |
| PLATE DISSIPATION. . . . .               | 2.5 max. | watts |
| PEAK HEATER-CATHODE VOLTAGE:             |          |       |
| Heater negative with respect to cathode. | 90 max.  | volts |
| Heater positive with respect to cathode. | 90 max.  | volts |

### **Typical Operation and Characteristics:**

|                               |      |      |                  |
|-------------------------------|------|------|------------------|
| Plate Voltage. . . . .        | 90   | 250  | volts            |
| Grid Voltage. . . . .         | 0    | -8   | volts            |
| Amplification Factor. . . . . | 20   | 20   | -                |
| Plate Resistance. . . . .     | 6700 | 7700 | ohms             |
| Transconductance. . . . .     | 3000 | 2600 | $\mu\text{mhos}$ |
| Plate Current. . . . .        | 10   | 9    | ma               |

SEPT. 1, 1950

**TUBE DEPARTMENT**  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

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**MEDIUM-MU TRIODE**

**Maximum Circuit Values:**

Grid-Circuit Resistance. . . . . 1.0 max. megohm

**Typical Operation as Resistance-Coupled Amplifier:**

*See RESISTANCE-COUPLED AMPLIFIER CHART  
at the front of this Section.*

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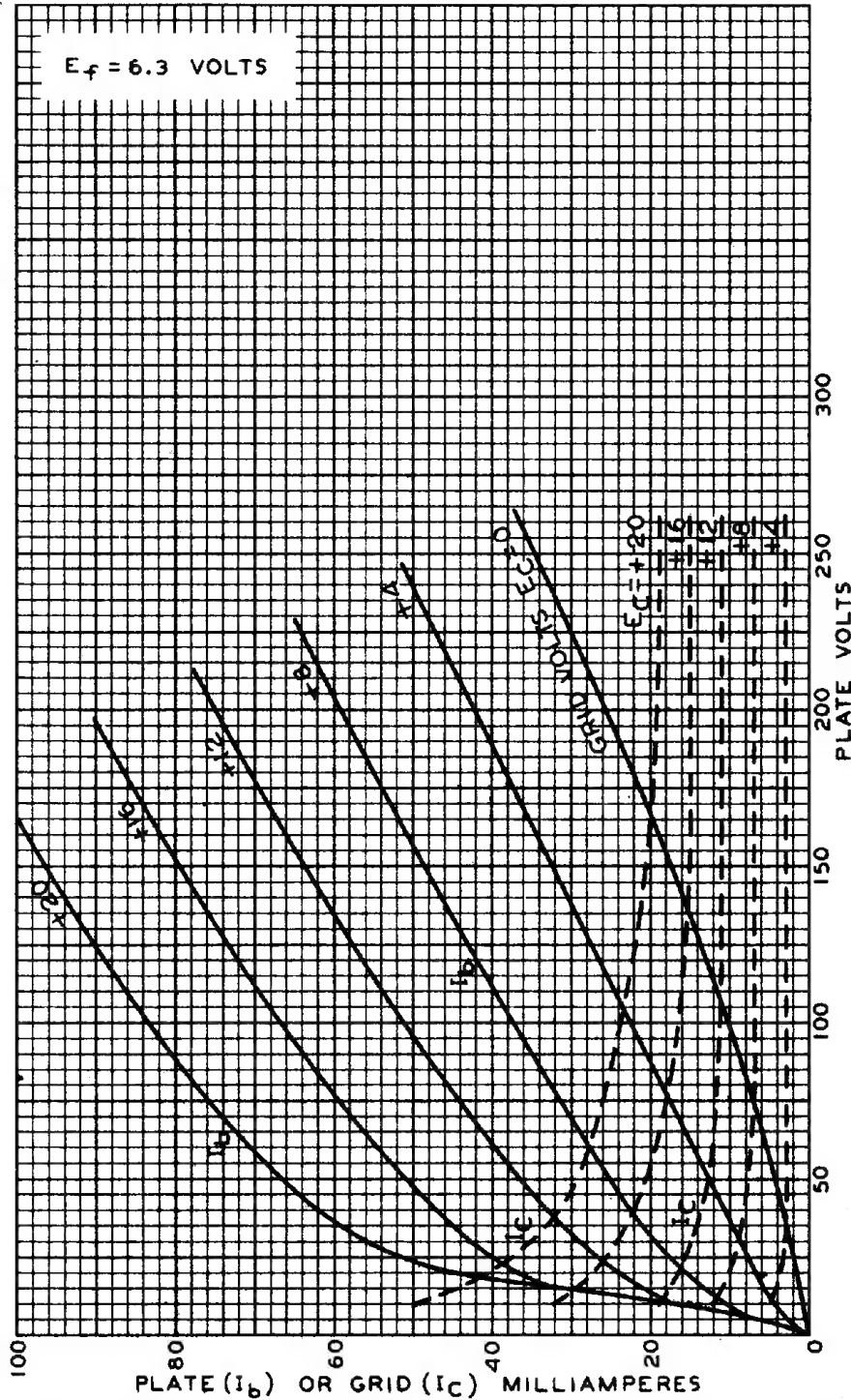
DATA



6J5

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# AVERAGE PLATE CHARACTERISTICS



AUG. 10, 1943

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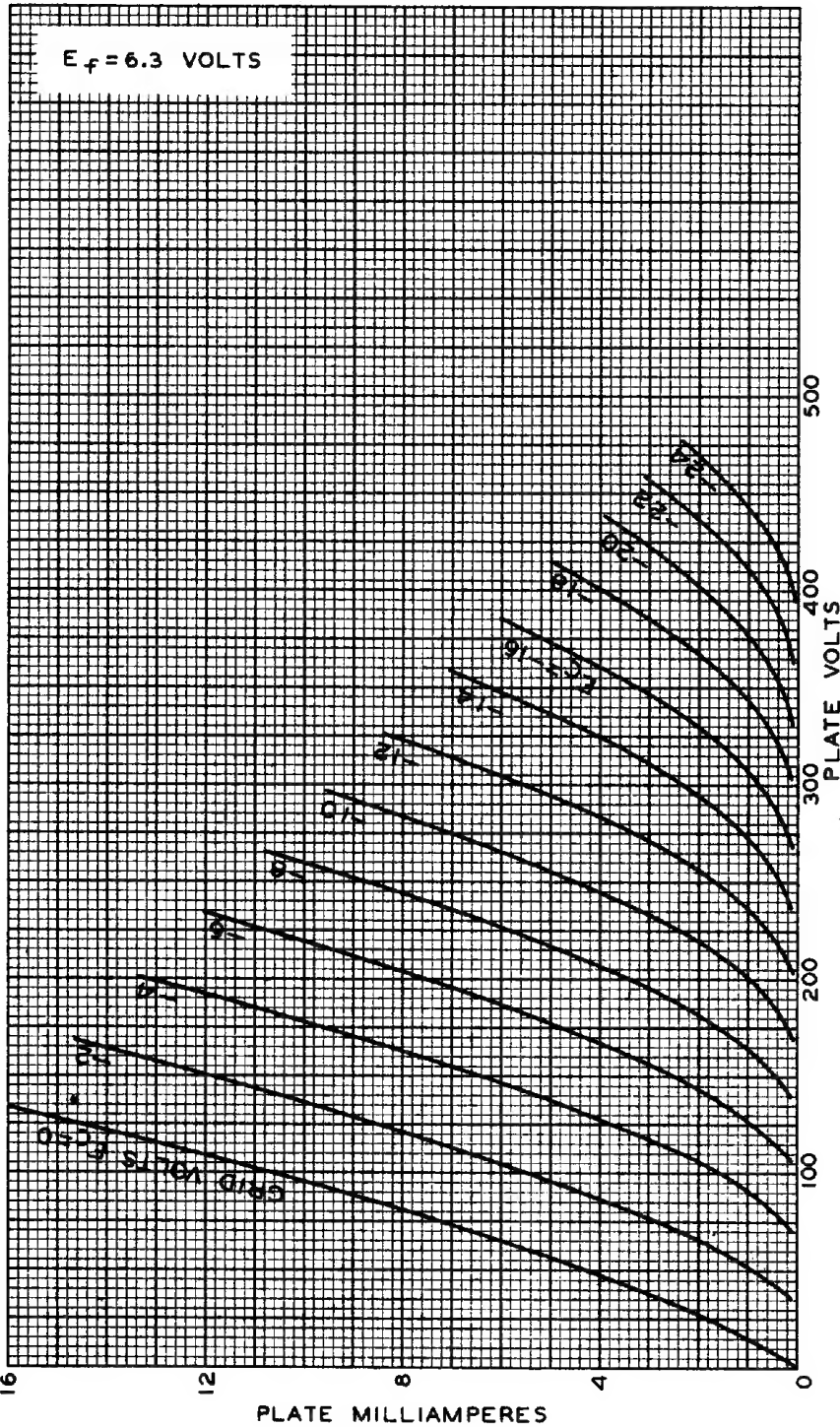
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# AVERAGE PLATE CHARACTERISTICS



APRIL 27, 1943

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